

chris vandevelde

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summary of qualifications

- Recent programming experience in **Python**, **Javascript**, and **Java**, in **HTML/CSS**-based, **Android** and server environments.
- Strong interest in **Machine Intelligence**, **Natural-Language Processing**, and **Human-Computer Interaction**.
- Experience with the modern software development environment (version control, continuous integration, automated testing, etc.) in Mac, Linux, and Windows environments.
- Bilingual in **English** and **French**.

experience

trendradius

Software & Machine Learning Developer

Kitchener, Ontario

July 2014 - Present (Full-Time)

- Development on a web-based application using **Node.js**, **Express**, and **MongoDB**, a front-end Javascript application based on **Backbone.js** and **Twitter Bootstrap**, and a backend processing application written in Java.
- Created intelligent **sentiment analysis** tool in Java using OpenNLP and SentiWordNet, and **feed-forward neural network** to suggest matches across text-based content collections.
- Led efforts to ensure **Continuous Integration** and Deployment across products, set up Jenkins CI server and testing using Mocha.js and JUnit, consolidated build processes using NPM and Maven.

triangulation device

App Developer and Programmer

Waterloo, Ontario

August 2014 - Present (Part-Time)

- Developed an **Android** client for a participatory sound art project, led by Professor Jessica Thompson, University of Waterloo.
- Used a variety of sensors (including microphone, GPS, accelerometer) to provide input to interface with an existing PureData backend.
- Created re-usable Bluetooth IPC layer and messaging library for data transfer between two Android clients.

canopy labs

Data-Mining & Machine Learning Developer

Toronto, Ontario

April 2013 - August 2013 (Full-Time)

- Fixed bugs and added features to the full stack of the Canopy Labs customer analytics platform throughout a series of inter-related applications.
- Worked in a variety of environments (both new and familiar) including Python, PHP, C++, JavaScript, HTML5/CSS, R, shell scripting on both Mac and Linux operating systems.
- Worked with a variety of software development tools including Git, FogBugz, JIRA, Scons, and Selenium.

square

Android Developer

San Francisco, California

Jan 2012 – April 2012 (Full Time)

Sept 2012 – Dec 2012 (Full Time)

- Helped develop and build features, and identify and fix bugs across both Square's [Wallet](#) and [Register](#) **Android** applications.

- Coded across the entirety of the application, from layout files and UI to helper libraries to backend logic, home-screen app widgets and more.
- Contributed to maintaining software quality via tests using Android testing frameworks [Robolectric](#) and [Robotium](#).
- Worked primarily on OS X using **IntelliJ IDEA**, along with **git** and both **ant** and **maven** for building.

upverter

Blacksmith/Mad Scientist

Toronto, Ontario

May 2011 – August 2011 (Full Time)

- Contributed features and bug-fixes to the development of an HTML5 Canvas and Python web application for Electronic Circuit Design, as well as a community-centered project showcase and parts library.
- Learned multiple new languages and APIs over four months including **Python**, **Protocol Buffers**, **HTML5 Canvas** and **Google Closure**.
- Developed a robust Node.js-based standalone script that used the existing Javascript & HTML5 Canvas rendering process, and batch export images to PNG.
- Also contributed to various side projects including **Arduino** and **Android** connections over USB, MIDI signal generation and Amazon EC2 setup.

education

university of waterloo

Bachelor of Applied Sciences in Systems Design Engineering

Waterloo, Ontario

September 2008 – June 2014

Relevant Courses

- Pattern Recognition – Methods for classifying and interpreting measured data in groups.
- Machine Intelligence – Intelligent systems, artificial intelligence techniques.
- Simulating Neurobiological Systems – Neural computation, modelling techniques.
- Control Systems – Controls engineering, systems theory, PID control and action.
- Image Processing – Analyzing, adjusting, and filtering image data.
- Data Structures & Algorithms – Data structure and algorithm characteristics and use.

clarkson secondary school

Ontario Secondary School Diploma

French Immersion Diploma

Mississauga, Ontario

June 2007

June 2007

awards

university of waterloo

President's Scholarship

Waterloo, Ontario

September 2008

clarkson secondary school

Black Charger Award (800+ hours of extra-curricular involvement)

Six Principal's Reception awards (awards for school commitment)

Mississauga, Ontario

September 2007

September 2006 – June 2008

activities & interests

- Drummer, Various jazz bands & combos, Mississauga & Waterloo, since January 2003
 - Interested in cognitive science, human-computer interaction, and artificial intelligence.
- Maintains an online notebook at <http://blog.chris.vandevell.de>